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2023

# ABSTRACT BOOK 2023

(i - J a M C S I I X)

INTERNATIONAL JASIN

MULTIMEDIA AND COMPUTER SCIENCE

INVENTION AND INNOVATION EXHIBITION

PUBLICATION DATE :8 NOV 2023

<https://jamcsiix.uitm.edu.my/>



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## **2023**

INTERNATIONAL JASIN MULTIMEDIA & COMPUTER SCIENCE  
INVENTION AND INNOVATION EXHIBITION (I-JaMCSIIIX) 2023

# **Virtual Award Ceremony**

**8th November 2023**  
**Wednesday**

Platform: YouTube

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## 2023

INTERNATIONAL JASIN MULTIMEDIA & COMPUTER SCIENCE  
INVENTION AND INNOVATION EXHIBITION (I-JaMCSIIIX) 2023

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Universiti Teknologi MARA Cawangan Melaka Kampus Jasin  
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# BTF Cake Recommender and Management System by using Rule-Based

Fatin Sarah Shafiqah Binti Mohd@Mohamad, Nur Suhailayani Binti Suhaimi

MARA University of Technology, Malaysia

fatinsarahsyafiqah0186@gmail.com,suhailayani@uitm.edu.my

The rise of online bakery management rapidly opens the opportunity for system developers to build better than just a management system. BalqistheFoodie is a homemade baker based in Bukit Siput, Segamat Johor, specializing in custom-made cakes of different sizes. BalqistheFoodie primarily receives customer orders via WhatsApp and sells products online via Instagram. The sale will be recorded in a notebook alongside the product's demand and the customer's information via WhatsApp business. The current business process has led to some problems for BalqistheFoodie, such as missing data due to manual record keeping, the owner of BTF spending time manually checking ingredients, and the lack of recommender features. This project aims to develop a web-based recommendation system that will help BTF's owner increase sales by suggesting cakes. BalqistheFoodie requires a computerized recommendation system to aid in reducing and mitigating the issues that the business has been experiencing. Rule-Based is one of the techniques used for this recommendation, which attempts to suggest the collective data of ingredients for baking a cake. Afterwards, rules were implemented based on the inventory's recommended quantity of available ingredients. This system's output is a list of products well-matched to the customer's choices. The owner of BTF can make recommendations without manually reviewing each one. Although a few limitations have been identified, the objectives have been met. As for future enhancement, including a payment gateway with multiple payment options and a feature for sales forecasting is recommended.

*Keywords— rule-based system, knowledge discovery, intelligent system*



# i - J a M C S I I X

## 2023

PUBLISHED BY:

i-JaMCSIIIX

Universiti Teknologi MARA Cawangan Melaka

Kampus Jasin

77300 Merlimau, Melaka

Tel: 062645000

Email: [jamcsiix@uitm.edu.my](mailto:jamcsiix@uitm.edu.my)

Web: <https://jamcsiix.uitm.edu.my/>

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